

### Applications

- 200 Gb/s InfiniBand HDR systems
- Other optical links

### Features

- Supports IBTA InfiniBand HDR
- Up to 200 Gb/s data rate
- 4x 50 Gb/s PAM4 modulation
- SFF-8665 compliant QSFP56 port
- SFF-8636 compliant I2C management
- 4.5 W power dissipation each end, with retiming
- Single +3.3 V power supply
- Hot pluggable
- RoHS compatible
- Operating temperature range 0 °C to +70 °C (Standard)

### Absolute Maximum Ratings

Parameter	Symbol	Min	Typical	Max	Unit
Supply Voltage	Vcc <sub>3</sub>	-0.5	-	3.6	V
Storage Temperature	T <sub>s</sub>	-5	-	75	°C
Operating Humidity <sup>1</sup>	RH	5	-	85	%

Note

1 per terminal

### Recommended Operating Conditions

Parameter	Symbol	Min	Typical	Max	Unit
Operating Case Temperature	T <sub>c</sub>	0	-	+70	°C
Power Supply Voltage	Vcc	3.14	3.3	3.47	V
Power Dissipation	Pd	-	-	4.5	W

Note

1 per terminal

### Optical and Electrical Specifications

Parameter	Symbol	Unit	Min	Typ	Max
<b>Transmitter</b>					
Signaling rate (each lane)	SR	GBd	26.5625 ± 100 ppm		
Differential data input voltage per lane	V <sub>in</sub> , pp, diff	mV	900	-	-
Differential termination mismatch	-	%	-	-	10
Single-ended voltage tolerance range	-	V	-0.4	-	3.3
DC common mode voltage	-	mV	-350	-	2850
<b>Receiver</b>					
Signaling rate (each lane)	SR	GBd	26.5625 ± 100 ppm		
Differential output voltage	-	mV	-	-	900
Differential termination mismatch	-	%	-	-	10
Transition time (min, 20% to 80%)	-	ps	9.5	-	-
DC common mode voltage	-	mV	-350	-	2850
Error Bit Rate <sup>1</sup>	BER	-	-	-	2.4E-4

Note

1 PRBS31Q@26.5625Gbd PAM4

## Ordering information<sup>1</sup>

Part number	Product Description
XCE-5Q5QNxx	200G QSFP56-QSFP56 AOC, 0-70°C, xx: 01 1 m, 02 2 m, 03 3 m, 05 5 m, 07 7 m, 10 10 m

### Notes

<sup>1</sup> For accurate order specification please contact XenOpt reseller before placing an order. The content of this document is subject to change without notice. XenOpt does not guarantee errorless or outdated information.

Please specify any compatibility requirements at time of ordering. Standard MSA compatible pluggable components may not work or some function of these components may not be available in devices that require customized compatible devices. Pluggable components compatible with one type of communications equipment may not work in other type of communications equipment.

### Important Notice

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